//maps and sets exercise

//Question 1: what does the following code return?

new Set([1,1,2,2,3,4]) // {1,2,3,4}

//Question 2: what does the following code return?

[...new Set("referee")].join("") // "ref"

//Question 3: what does the Map m look like after running the following code?

let m = new Map();

m.set([1,2,3], true);

m.set([1,2,3], false);

//

0: {Array(3) => true}

1: {Array(3) => false}

// hasDuplicate: write a function called hasDuplicate which accepts an array and returns true or false if that array contains a duplicate

const hasDuplicate => arr => new Set(arr). size !== arr.length

//vowelCount: write a function called voewCount which accepts a string and returns a map where the keys are numbers and the values are the count of the vowels in the string

function isVowel(char){

    return 'aeiou'.includes(char);

}

function vowelCount(str) {

    const vowelMap = new Map();

    for(let char of str){

        let lowerCaseChar = char.toLowerCase()

        if(isVowel(lowerCaseChar)){

            vowelMap.set(lowerCaseChar, vowelMap.get(lowerCaseChar) + 1);

        } else {

            vowelMap.set(lowerCaseChar, 1);

        }

    }

    return vowelMap;

}